THE LEADER OF FLOATING PV SYSTEM
Sungrow Floating Manufactory base relays on Sungrow Group which has 21 years’ research and production experience of solar power industry and organizes a research and development group of floating system, which consists of several specialists and doctors. Sungrow Floating has more than 30 patents concerning floating body, matrix anchorage, inverter booster floating platform and system operation and maintenance and takes the lead to set up a number of floating technology standards. The company adheres to the concept Innovation and Improvement, Pursuing of Excellence and devotes itself to be the supplier for Solar PV floating body and system with global leading technology.

Global Network Resource

- **Exclusive Resources**: 8 fitting warehouses&full-time service engineers
- **Quick Response**: 1 hour-Response, 24hours-Problem Solving
- **Global Platform**: Covering over 50% countries and regions worldwide
- **Life Time**: 25 years Upgrade and after services within product life cycle
- **Customer Serving**: Open technologies & product maintenance & training for system design
- **Customer Service Line**: 400 880 5578
Product Advantages

<table>
<thead>
<tr>
<th>Model</th>
<th>Function</th>
<th>Max buoyance force(N)</th>
<th>Temperature tolerance</th>
<th>Antifatigue</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF-M</td>
<td>For Supporting</td>
<td>1380</td>
<td>-40 ~ +85°C</td>
<td>100,000 times of dynamic load cycle</td>
<td>HDPE</td>
</tr>
<tr>
<td>SF-C</td>
<td>For connection</td>
<td>860</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SF-A</td>
<td>For O&amp;M</td>
<td>600</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SF-H</td>
<td>For electrical connection</td>
<td>1500</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SF-B</td>
<td>/</td>
<td>/</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Advantages of Inverter&Booster Platform

Good compatibility of facility, high safety  Installation on site, convenient O&M

inverter-booster floating platform SF-P

<table>
<thead>
<tr>
<th>Model</th>
<th>Function</th>
<th>Displacement</th>
<th>Designed draft</th>
<th>Designed wind speed</th>
<th>Designed wave height</th>
<th>Safe heel angle</th>
<th>Extreme heel angle</th>
<th>Safety compartment quantity</th>
<th>O&amp;M manhole and watertight door quantity</th>
<th>Coating thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF-P</td>
<td></td>
<td>40t</td>
<td>0.87m</td>
<td>30m/s</td>
<td>2m</td>
<td>3°</td>
<td>10°</td>
<td>15</td>
<td>15</td>
<td>≥320μm</td>
</tr>
</tbody>
</table>
Floating System Solution

Relying on 21 years of technology accumulation and R&D advantages of Sungrow Group, Sungrow Floating has the experience in design, construction, O&M of the world’s largest floating power plant, the Company is committed to provid world’s top floating power plant system solutions.

Floating System

- **Convenient Installation**
- **Reliable and Durable**
- **Resistance of Level 17 Typhoon**
- **Adjust to different latitudes**

Installed through guide rail and briquetting, can solve the deformation of cantilever part of panel; resistance of heavy snow.

Installation of Dual-Glass Panel

Installation of Aluminum Frame

good application for different panels, dual-glass panel is applicable.

System Layout

- **Good ventilation effect**
- **Improve power generation effectively**
- **Flexible design**
- **Low LCOE**

Single Row Array

Dual Row Array

good integrality, inside stress equilibrium, good orientation consistency. Various layouts can adjust different water regions.

Improvement of solar irradiation, wide O&M aisle, quick response.

Anchoring System

Customized anchoring system, adjustable for all scenes with less than 150 meters water depth, adjustable for 25 meters water range.

**Design process for anchoring system**

1. Confirm the Max Wind, Wave & Water Flow Conditions
2. Analysis of Wind & Water Flow Force or Model Wind Tunnel Experiment
3. Selection for anchoring system Layout
4. Coupling analysis of hydrodynamic force and anchoring system in extreme conditions
5. Confirm the max tension of mooring rope, confirm anchoring system
6. Confirm the safe distance of matrix
Application Cases / Large-scale floating power plant

Guqiao Huainan • China   Installed capacity : 150MW

Xinji Huainan • China   Installed capacity : 102MW

Weishan Jining • China   Installed capacity : 100MW

Huancheng Jining • China   Installed capacity : 50MW

Panji Huainan • China   Installed capacity : 40MW
special application floating power plant

Japan extremely cold region
Installed capacity : 0.16MW

Datong Daqing • China extremely cold region
Installed capacity : 300kW

Tainan Taiwan • China typhoon region
Installed capacity : 3.1MW

Huaiyang Zhoukou • China PV Poverty Alleviation
Installed capacity : 0.2kW

Advantages of Floating Power Plant

- **Land Resource Conservation**
  availability on water reservoir, fishpond, mining subsidence area, coastal waters etc.

- **Power generation improvement**
  good water cooling effects, 10% more power generation

- **Easy installation**
  short period installation cycle

- **Water protection**
  reduce water evaporation, control algae growth

- **Convenient O&M**
  no obstructions, convenient cleaning

- **Market Prospect**
  abundant water resource and able for large-scale promotion
Application Scope of PV Floating System

- Coal subsidence
- Scenery lake
- Small unused water area
- Aquaculture pound
- Reservoir
- Sewage treatment reservoir
- Offshore water area
- Extremely cold area
- Frequent Typhoon area

Our Services

- Feasibility Report
- Customized Scheme
- Design Consultation
- Anchoring Design
- Transportation & Installation
- Operation & Maintenance
Supplier for floating body and float system with global leading technologies

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Email: overseas@sungrow.cn
Website: www.sungrowpower.com

The latest information shall prevail without prior notice in case of any change in product dimensions and parameters.